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## NOTICE OF ALLOWANCE AND FEE(S) DUE

22850

7590

05/22/2008

OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C.  
1940 DUKE STREET  
ALEXANDRIA, VA 22314

EXAMINER

BONSHOCK, DENNIS G

ART UNIT

PAPER NUMBER

2173

DATE MAILED: 05/22/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/713,224	11/17/2003	Kirsten Kopitzke	245474US41DIV	2479
TITLE OF INVENTION: METHOD OF MONITORING AIRCRAFT CABIN SYSTEMS				

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	08/22/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. **PROSECUTION ON THE MERITS IS CLOSED.** THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN **THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE** OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. **THIS STATUTORY PERIOD CANNOT BE EXTENDED.** SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

## HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER:** Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

# **PART B - FEE(S) TRANSMITTAL**

**Complete and send this form, together with applicable fee(s), to:** **Mail** **Mail Stop ISSUE FEE**  
**Commissioner for Patents**  
**P.O. Box 1450**  
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**INSTRUCTIONS:** This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

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Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

22850 7590 05/22/2008

**OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C.**  
**1940 DUKE STREET**  
**ALEXANDRIA, VA 22314**

## **Certificate of Mailing or Transmission**

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

(Depositor's name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/713,224 11/17/2003

Kirsten Kopitzke

245474US41DIV

2479

TITLE OF INVENTION: METHOD OF MONITORING AIRCRAFT CABIN SYSTEMS

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nonprovisional	NO	\$1440	\$300	\$0	\$1740	08/22/2008

EXAMINER	ART UNIT	CLASS-SUBCLASS
BONSHOCK, DENNIS G	2173	715-810000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB-122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB-47; Rev 03-02 or more recent) attached. Use of a **Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 \_\_\_\_\_
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 \_\_\_\_\_
- 3 \_\_\_\_\_

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies \_\_\_\_\_

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number \_\_\_\_\_ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature \_\_\_\_\_ Date \_\_\_\_\_

Typed or printed name \_\_\_\_\_ Registration No. \_\_\_\_\_

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 869 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 869 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Notice of Allowability

## Application No.

10/713,224

## Examiner

DENNIS G. BONSHOCK

## Applicant(s)

KOPITZKE ET AL.

## Art Unit

2173

### - The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the Applicant's Amendment filed on 3-3-2008 and the Examiner's Amendment of 5-9-2008.
2. ☒ The allowed claim(s) is/are 1-20.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☒ Certified copies of the priority documents have been received in Application No. 09/871,032.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
2. Authorization for this examiner's amendment was given in a telephone interview with Edwin Garlepp on 5-9-2008.
3. The application has been amended as follows:

Please replace Claim 1 with

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Claim 1: A method of monitoring and controlling a plurality of aircraft cabin systems using a user interface having a touch sensitive display and a plurality of input keys arranged on a scroll bar and corresponding to the plurality of aircraft cabin systems, the method comprising:

monitoring a subset of the plurality of aircraft cabin systems, selected by the user from among the plurality of aircraft cabin systems, in a main menu that includes a first system image showing status information for a first system of the plurality of aircraft cabin systems, and a second system image showing status information for a second system of the plurality of aircraft cabin systems, wherein at least the first system image is a spatial map of the aircraft cabin showing status information for the first system at different locations within the aircraft cabin;

activating one of said input keys corresponding to a first system of said plurality of aircraft cabin systems to display a first system graphical menu having status information and operating functions of said first system, wherein the first graphical menu can also be displayed by the user touching the first system image spatial map and can also be displayed as part of a prescribed succession plan or display sequence which automatically successively displays system graphical menus corresponding to the plurality of aircraft cabin systems;

touching a touch sensitive input area of said first system graphical menu to perform at least one of selection and control of said operating functions of said first system;

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activating another one of said input keys corresponding to a second system of said plurality of aircraft cabin systems to display a second system graphical menu having status information and operating functions of said second system, wherein the second graphical menu can also be displayed by the user touching the second system image and can also be displayed as part of said predescribed succession plan or display sequence which automatically successively displays system graphical menus corresponding to the plurality of aircraft cabin systems;

touching a touch sensitive input area of said second system graphical menu to perform at least one of selection and control of said operating functions of said second system.

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Please replace Claim 11 with

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Claim 11: A method of monitoring and controlling a plurality of aircraft cabin systems using a user interface having a touch sensitive display and a plurality of input keys arranged on a scroll bar and corresponding to the plurality of aircraft cabin systems, the method comprising:

monitoring a subset of the plurality of aircraft cabin systems, selected by the user from among the plurality of aircraft cabin systems, in a main menu on said display, said main menu depicting first and second system images showing essential information representing a system status of respective first and second systems of said plurality of aircraft cabin systems, wherein at least the first system image is a spatial map of the aircraft cabin showing status information for the first system at different locations within the aircraft cabin;

activating one of said input keys corresponding to said first system to display a first system graphical menu having status information and operating functions of said first system, wherein the first graphical menu can also be displayed by the user touching the first system image spatial map and can also be displayed as part of a predescribed succession plan or display sequence which automatically successively displays system graphical menus corresponding to the plurality of aircraft cabin systems;

touching a touch sensitive input area of said first system graphical menu to perform at least one of selection and control of said operating functions of said first system;

activating another one of said input keys corresponding to said second system to display a second system graphical menu having status information and operating functions of said second system, wherein the second graphical menu can also be

displayed by the user touching the second system image and can also be displayed as part of the predescribed succession plan or display sequence which automatically successively displays system graphical menus corresponding to the plurality of aircraft cabin systems;

touching a touch sensitive input area of said second system graphical menu to perform at least one of selection and control of said operating functions of said second system.

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### ***Terminal Disclaimer***

The terminal disclaimer filed on 3-3-2008 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of any patent granted on Application Number 10/713,223 has been reviewed and is accepted.

The terminal disclaimer has been recorded.

### **REASONS FOR ALLOWANCE**

1. The following is an examiner's statement of reasons for allowance:
2. The examiner considered the Applicant's Amendment filed on 3-3-2008 and the Examiner's Amendment of 5-9-2008 and after updated search, no other prior art of record has taught that which was presented in the amended claims
3. Therefore, claims 1-20 are allowable.
4. Independent claims 1 and 11, when considered as a whole, are allowable over the prior art of record (Launey et al., Eriksson et al., and DeMers et al.).

Launey teaches a user interface system that uses a touch screen for monitoring and controlling different aspects of an environment (see column 2, lines 65 through

column 3, line 10 and column 4, lines 42-50); in column 12, lines 13-19, implementing the system in a aircraft. Launey further teaches the display area of the screen contains a plurality of labeled touch sensitive input keys, making a touch screen (see column 4, lines 42-50 and figures 12a-e). These touch keys include keys to control the audio, TV, lights, etc. (see figure 12A and column 55, lines 19-28). Launey further teaches, in column 55, lines 19-35 and figures 12a and 12b, a touch sensitive key of an audio system (for example) being pressed from the main menu screen (12a) causing the audio sub-menu screen (12b) to be displayed. Launey further teaches, in column 55, lines 29-35 and column 2, lines 65 through column 3, line 9, the audio sub-menu screen allowing a user to monitor and control the audio devices. Showing status for systems is pointed out by showing the amount of speakers (see figure 12B); and further pointed out for other optional sub-menus, in column 55, lines 42-48 and in figure 12D, displaying if a tape is in or not; and in figures 3I and 3K displaying whether a system is "READY TO ARM" or "ARMED". Launey further teaches, in column 55, lines 29-35 and column 2, lines 65 through column 3, line 9, the audio sub-menu screen allowing a user to select and control the audio devices via a touch screen, and selectable sub-menu elements. Launey further teaches, in column 55, lines 19-28 and lines 49-60 and figures 12a and 12e, a touch sensitive key of a lighting system (for example) being pressed from the main menu screen (12a) causing the lighting sub-menu screen (12e) to be displayed. Launey further teaches, in column 55, lines 49-60 and column 2, lines 65 through column 3, line 9, the lighting sub-menu screen allowing a user to monitor and control the lighting devices. Showing status for systems is pointed out by showing the lighting



status and scenes (see figure 12E); and further pointed out for other optional sub-menus, in column 55, lines 42-48 and in figure 12D, displaying if a tape is in or not; and in figures 3I and 3K displaying whether a system is "READY TO ARM" or "ARMED". Launey further teaches, in column 55, lines 49-60 and column 2, lines 65 through column 3, line 9, the lighting sub-menu screen allowing a user to select and control the lighting devices via a touch screen, and selectable sub-menu elements. Launey teaches, in column 2, lines 65 through column 3, line 9, controlling an monitoring different system in the aircraft environment.

Launey is further supplemented by Eriksson who further teaches a display unit for allowing a user to monitor and control multiple diverse aspects of a vehicles environment (climate, audio, etc.), via sub-menus (see column 2, line 66 through column 3, line 10), similar to that of Launey, but further teaches a normal key [30], which provides the display of status information for a plurality of system elements, specifically, in the example status images are provided, first a driver temperature, second a stereo volume, and finally a passenger temperature (see column 3, lines 10-25 and figure 4). Where the status elements act as controllable menus (see column 3, lines 60-67).

Launey and Eriksson are further supplemented by DeMers who further teaches a system for controlling various systems in an environment (temperature, lighting, etc.) via a menu and status display (see column 10, lines 20-34), similar to that of Launey and Eriksson, but further teaches displaying status information in the form of a spatial map of an aircraft cabin (see column 4, lines 2-16 and figure 1).

However, specifically the prior art of record fails to clearly teach or support the limitations of monitoring a selected subset of aircraft cabin systems in a main menu, including a spatial map of one of the cabin systems, where the cabin systems are selected from the set of all cabin systems displayed in a scroll bar. Wherein specific cabin system graphical menus can be displayed via any of: selecting one of the input keys of the scroll bar, touching a spatial map, or optionally be displayed as part of the predescribed succession plan or display sequence which automatically successively displays graphical menus.

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DENNIS G. BONSHOCK whose telephone number is (571)272-4047. The examiner can normally be reached on Monday - Friday, 6:30 a.m. - 4:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dennis Chow can be reached on (571) 272-7767. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Dennis G. Bonshock/  
Examiner, Art Unit 2173  
dgb  
5-9-08